

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A medical lead for electrical stimulation or sensing, the medical lead comprising a generally flat paddle on a distal end of a body of the lead, the paddle defining an imaginary longitudinal center line, the paddle comprising:
 - first and second major surfaces;
 - an electrode array comprising at least one electrode located on the longitudinal center line defined by the paddle, the at least one electrode being exposed through the first major surface and insulated by the second major surface, thereby having directional electrical field properties relative to the first and second major surfaces of the paddle; and
 - an orientation marker being displaced from the longitudinal center line, on one side thereof, and from the at least one electrode, the orientation marker including radio-opaque material such that, when the orientation marker is viewed under fluoroscopy, as being on a particular side of the longitudinal center line, the direction in which the first major surface of the paddle faces can be determined.
2. Cancelled
3. (Previously Presented) The medical lead of claim 1 in which the at least one electrode is recessed relative to the first major surface.
4. (Original) The medical lead of claim 1 wherein the orientation marker is coded to identify the model or serial number of the lead.
5. Cancelled

6. (Previously Presented) The medical lead of claim 1 wherein the radio-opaque material comprises platinum.
7. (Previously presented) The medical lead of claim 1 wherein the orientation marker comprises a discrete radio-opaque marker.
8. (Original) The medical lead of claim 7 wherein the orientation marker is formed of radio-opaque material selected from the group consisting of platinum and platinum/iridium alloy.
9. (Original) The medical lead of claim 8 wherein the paddle is formed of substantially transparent polyurethane material.
10. (Cancelled)
11. (Previously Presented) The medical lead of claim 1 wherein the orientation marker comprises radio-opaque material dispersed in the paddle.
12. (Cancelled)

13. (Previously Presented) A medical lead for electrical stimulation or sensing, the medical lead comprising:

- a lead body having proximal and distal ends, and at least one electrical conductor extending between the proximal and distal ends;
- a connector on the proximal end of the lead body in electrical communication with the electrical conductor; and
- a generally flat paddle on the distal end of the lead body, the paddle defining an imaginary longitudinal center line, the paddle comprising:
 - proximal and distal ends, first and second major surfaces, and a length extending between the proximal and distal ends;
 - an electrode array being located on the longitudinal center line and displaced along the length of the paddle, toward the distal end of the paddle, and comprising at least one electrode in electrical communication with the electrical conductor, the at least one electrode being exposed through the first major surface of the paddle and insulated by the second major surface of the paddle, thereby having directional electrical field properties relative to the first and second major surfaces; and
 - an orientation marker being displaced from the longitudinal center line, on one side thereof, and from the electrode array, the orientation marker including radio-opaque material such that, when the orientation marker is viewed under fluoroscopy, as being on a particular side of the longitudinal center line, the direction in which the first major surface of the paddle faces can be determined.

14. (Cancelled)

15. (Previously Amended) The medical lead of claim 13 in which the at least one electrode is recessed relative to the first major surface.

16. (Original) The medical lead of claim 13 wherein the orientation marker is coded to identify the model or serial number of the lead.
17. (Cancelled)
18. (Previously Presented) The medical lead of claim 13 wherein the radio-opaque material comprises platinum.
19. (Previously Presented) The medical lead of claim 13 wherein the orientation marker comprises a discrete radio-opaque marker.
20. (Original) The medical lead of claim 19 wherein the orientation marker is formed of radio-opaque material selected from the group consisting of platinum and platinum/iridium alloy.
21. (Original) The medical lead of claim 20 wherein the paddle is formed of substantially transparent polyurethane material.
22. (Cancelled)
23. (Previously Presented) The medical lead of claim 13 wherein the orientation marker comprises radio-opaque material dispersed in the paddle.
24. (Cancelled)

25. **Cancelled**

26. (Cancelled)

27. – 29. **Cancelled**